

Datasheet for 200-401-C43S**Cenexin-1 Antibody****Overview**

Description:	Anti-Cenexin-1 (RABBIT) Antibody - 200-401-C43S
Item No.:	200-401-C43S
Size:	25 µL
Applications:	ELISA, WB
Reactivity:	Mouse
Host Species:	Rabbit

Product Details

Background:	This antibody is designed, produced, and validated as part of a collaboration between Rockland and the National Cancer Institute (NCI) and is suitable for Cancer, Immunology and Nuclear Signaling research. Cenexin-1 (ODF84) and cenexin-2 are splicing variants that are expressed from the same genetic locus Outer Dense Fiber protein 2 (ODF2). Cenexin-1 and cenexin-2, regarded as centriolar proteins. Cenexin-1, a 93-kD variant of ODF2, is the major form of cenexin expressed in various somatic cells and tissues and associates with centrosomes. Cenexin-1 contains a unique C-terminal extension that appears to play a critical role in recruiting mitotic regulators such as polo-like kinase 1. In contrast, ODF2, a 70-kDa protein, is a major component of sperm tail cytoskeleton and abundantly expressed in testis. Additional evidence suggests that both of these proteins play important role in primary cilia formation. The fibers function in maintaining the elastic structure and recoil of the sperm tail as well as in protecting the tail from shear forces during epididymal transport and ejaculation. Defects in the outer dense fibers lead to abnormal sperm morphology and infertility. Cenexin-1 is one of the major outer dense fiber proteins. Multiple protein isoforms are encoded by transcript variants of the cenexin gene; however, not all isoforms and variants have been fully described.
Synonyms:	rabbit anti-Cenexin-1 Antibody, ODF84 antibody, Outer dense fiber of sperm tail 2 antibody, Cenexin1 variant 1 antibody, KKT 4 antibody, Cenexin 1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ODF2
Reactivity:	Mouse
Immunogen Type:	Recombinant Protein
Immunogen:	Anti-Cenexin-1 purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a truncated recombinant protein hCenexin1.
Purity/Specificity:	This antibody was purified from monospecific antiserum by protein-A purified immunoaffinity chromatography. It is directed against, and shows specific reactivity for, human Cenexin-1 protein. A BLAST analysis was used to suggest cross-reactivity with Cenexin-1 from human, chimpanzee, mouse, rat, bovine sources based on 100% homology with the immunizing sequence. Reactivity with Cenexin-1 protein from other sources has not been determined.
Relevant Links:	• UniProtKB - Q5BJF6 • NCBI - NP_702915 • GenelD - 4957

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-Cenexin-1 purified antibody has been tested for use in ELISA and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 93 kDa in size corresponding to Cenexin-1 by western blotting in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:500 - 1:10,000
WB:	1:500-1:2000

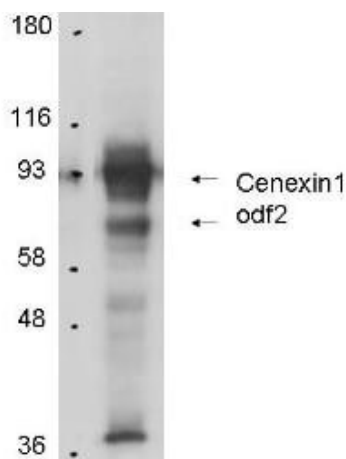
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.53 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Expiration:	Expiration date is three (3) months from date of receipt.

Images



Western Blot

Anti-Cenexin-1 in Western Blot using Rockland Immunochemical's Protein A Purified Anti-Cenexin-1 antibody shows detection of Cenexin-1 in total cell lysates from mouse F9 embryonic carcinoma cells. Arrowheads show detection of Cenexin-1 at approximately 93kDa and Outer dense fiber protein 2 (ODF2) at approximately 70kDa. In personal communication with K. Lee, CCR-NCI, Bethesda, MD.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.